

Listing of Claims:

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1. (Currently Amended) A drive control method ~~of~~ for a photosensor array including a plurality of rows, each having a plurality of photosensors arranged to form a matrix, the method comprising a driving sequence which includes:

5       ~~a first step for~~ applying a reset pulse to a predetermined row of ~~said the~~ photosensor array ~~so as~~ to initialize the ~~plural~~ plurality of photosensors in ~~said the~~ row;

accumulating charges generated by light irradiation during a charge accumulation period;

10       applying a predetermined pre-charge pulse to the plurality of photosensors during a pre-charge operation; and

~~a second step of~~ applying a read pulse to the ~~plural~~ plurality of photosensors of ~~said the~~ row after completion of ~~said the~~ initialization, after ~~a the~~ charge accumulating period  
15       ~~for accumulating charges generated by light irradiation, and~~  
          ~~after a the~~ pre-charge operation ~~in which a predetermined~~  
          ~~pre-charge pulse is applied to said plurality of photosensors, to~~  
          ~~output the a~~ voltage generated by the charges accumulated during  
          ~~said the~~ charge accumulating period as an output voltage; [[,]]

20       wherein ~~the~~ timings of applying the reset pulse, the pre-charge pulse and the read pulse ~~for to~~ each row are set not to overlap in time with each other, ~~and~~ the charge accumulating

periods for the rows are set to have a period equal to one of  
an application time and an integer multiple of the application  
25 time of the read pulse for each row, and the charge accumulating  
periods have an overlapping period between at least two  
different rows.

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2. (Currently Amended) The drive control method for a  
photosensor system according to claim 1, wherein ~~said the~~ reset  
pulses are successively applied to the rows of the photosensor  
array ~~in said first step so as~~ to successively initialize ~~said~~  
5 the plurality of photosensors, and

wherein the read pulses are successively applied to ~~said the~~  
plurality of photosensors ~~in said second step~~ after ~~said the~~  
initialization, after ~~a predetermined the~~ charge accumulating  
period and after completion of the pre-charge operation,  
10 ~~performed by said pre-charge pulse~~ to output successively the  
voltages generated by the charges accumulated during ~~said the~~  
charge accumulating period as the output voltages.

3. (Currently Amended) The drive control method for a  
photosensor system according to claim 2, wherein ~~the applying an~~  
application period of ~~said the~~ pre-charge pulse and ~~said the~~ read  
pulse for each row ~~in said second step~~ is equal to or longer than

~~the a~~ sum of ~~the a~~ pulse width of the pre-charge pulse and ~~the a~~ pulse width of the read pulse.

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Q3  
4. (Currently Amended) The drive control method for a photosensor system according to claim 2, wherein ~~the applying an application~~ period of ~~said the~~ reset pulse for each row in ~~said first step~~ and ~~the applying an application~~ period of ~~said the~~ pre-charge pulse and ~~said the~~ read pulse for each row in ~~said second step is~~ are equal to or longer than ~~the a~~ sum of ~~the a~~ pulse width of the pre-charge pulse and ~~the a~~ pulse width of the read pulse.

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5. (Currently Amended) The drive control method for a photosensor system according to claim 2, wherein ~~the applying an application~~ period of ~~said the~~ reset pulse for each row in ~~said first step~~ and ~~the applying an application~~ period of ~~said the~~ pre-charge pulse and ~~said the~~ read pulse for each row in ~~said second step is~~ are equal to or longer than ~~the a~~ sum of ~~the a~~ pulse width of the reset pulse ~~in the first step~~, ~~the a~~ pulse width of the pre-charge pulse and ~~the a~~ pulse width of the read pulse ~~in said second step~~.

Claim 6 (Canceled).

7. (Currently Amended) The drive control method for a  
photosensor system according to claim 1, wherein each of ~~said~~  
~~photosensor the photosensors~~ comprises a source electrode and a  
drain electrode arranged with a channel region ~~consisting of~~  
5 ~~comprising~~ a semiconductor layer interposed therebetween, and a  
first electrode and a second electrode formed at least above and  
below ~~said the~~ channel region with insulating layers interposed  
therebetween, and wherein the charges are generated and  
accumulated in an amount corresponding to ~~the~~ an amount of light  
10 irradiating ~~said the~~ channel region.

8. (Currently Amended) The drive control method for a  
photosensor system according to claim 7, wherein ~~said the~~ reset  
pulse is applied to ~~said the~~ first electrode of ~~said the~~  
photosensor ~~in said first step~~ to initialize ~~said the~~  
5 photosensor; and

~~said the~~ pre-charge pulse is applied to ~~said the~~ drain  
electrode of the photosensor ~~in the second step~~, and ~~said the~~  
read pulse is applied to ~~said the~~ second electrode of the  
photosensor after completion of the pre-charge operation  
10 ~~performed by application of the pre-charge pulse~~ to output ~~the a~~  
voltage of the drain electrode as ~~an~~ the output voltage.

9. (Currently Amended) The drive control method for a photosensor system according to claim 1, wherein ~~the applying an application~~ period of ~~said the~~ pre-charge pulse for each row and ~~said the~~ read pulse ~~in said second step~~ is equal to or an integer number times as long as ~~the a~~ sum of ~~the a~~ pulse width of the pre-charge pulse and ~~the a~~ pulse width of the read pulse ~~in said second step~~.

Q3 10. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein ~~said the~~ charge accumulating periods for the rows ~~in said second step~~ are equal to or an integer number times as long as said sum and are set different from each other depending on the rows.

11. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein ~~said the~~ reset pulses are simultaneously applied to the rows of ~~said the~~ photosensor array ~~in said first step~~, and ~~said the~~ pre-charge pulses are applied ~~in said second step~~ at the time interval equal to or an integer number times as long as said sum, and ~~said the~~ read pulses are applied to each row, and wherein the charge accumulating period for each row is set to a different time.

12. (Currently Amended) The drive control method for a  
photosensor system according to claim 9, wherein ~~said the~~ reset  
pulses are applied ~~in said first step~~ to each row of ~~said the~~  
photosensor array at the time interval equal to or an integer  
5 number times as long as said sum and, after completion of the  
reset pulse application to all the rows, ~~said the~~ pre-charge  
pulses are applied ~~in said second step~~ and ~~the~~ read pulses are  
applied to each row in ~~the an~~ order opposite to ~~the an~~ order of  
applying the reset pulses to each row of the photosensor array in  
10 ~~the first step~~.

13. (Currently Amended) The drive control method for a  
photosensor system according to claim 9, wherein ~~said the~~ reset  
pulses are successively applied ~~in said first step~~ to each row of  
~~said the~~ photosensor array at the time interval equal to or an  
5 integer number times as long as said sum;

wherein said the pre-charge pulses are applied ~~in said~~  
~~second step~~ in synchronism with the application of the reset  
charges said first step, and ~~the~~ read pulses are applied to each  
row in ~~the an~~ order opposite to ~~the an~~ order of applying the  
10 reset pulses to each row of the photosensor array ~~in the first~~  
~~step~~; and

Q<sup>3</sup>        wherein after completion of ~~the~~ a pre-charge voltage  
application and the read pulse application, and after a lapse of  
time equal to said sum ~~of time~~, ~~said the~~ pre-charge pulses are  
15        applied and the read pulse is applied again to each row in ~~the~~ an  
order equal to the order of applying the read pulse to each row  
at the time interval equal to or an integer number times as long  
as said sum ~~of time~~.

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